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PNSWSH

TECHNICAL IMPLEMENTATION NOTICE 09-03  
NATIONAL WEATHER SERVICE HEADQUARTERS WASHINGTON DC  
158 PM EDT THU JAN 15 2009

TO: SUBSCRIBERS:  
-FAMILY OF SERVICES  
-NOAA WEATHER WIRE SERVICE  
-EMERGENCY MANAGERS WEATHER INFORMATION NETWORK  
-WEB OPERATIONS CENTER  
OTHER NWS PARTNERS...USERS AND EMPLOYEES

FROM: JORDAN ALPERT...ENVIRONMENTAL MODELING CENTER /EMC/  
RICK HACKENBERG...NCEP CENTRAL OPERATIONS /NCO/

SUBJECT: OPERATIONAL IMPLEMENTATION ON FEBRUARY 14 2009 OF  
HIGH AVAILABILITY APPLICATIONS FOR SERVING DATA FROM  
THE NOAA OPERATIONAL MODEL ARCHIVE DISTRIBUTION SYSTEM  
/NOMADS/ AT THE WEB OPERATIONS CENTER /WOC/

ON FRIDAY FEBRUARY 14 2009...THE NWS NATIONAL CENTERS FOR  
ENVIRONMENTAL PREDICTION /NCEP/ WILL START PROVIDING HIGH  
AVAILABILITY NOAA OPERATIONAL MODEL ARCHIVE AND DISTRIBUTION  
SYSTEM /NOMADS/ APPLICATIONS FOR SERVING MODEL DATA ON THE  
WOC SERVER.

NOMADS IS AN IMPORTANT COMPONENT OF NOAA'S INFORMATION DATA  
BASE. NOMADS BEGAN AS A PILOT PROJECT DESIGNED TO PROVIDE A  
SERVICE ORIENTED FRAMEWORK FOR:

- A DIGITAL ARCHIVE AND REAL TIME DISTRIBUTION OF NOAA'S  
OPERATIONAL WEATHER MODELS
- AN INNOVATIVE DATA ACCESS PHILOSOPHY TO PROMOTE  
INTEROPERABLE ACCESS ACROSS THE GEOSCIENCES
- AN INTEGRATOR OF COMMON WEB SERVICES INFRASTRUCTURE TO  
SUPPORT THE DISCOVERY...ACCESS...AND TRANSPORT OF DATA
- REAL-TIME AND RETROSPECTIVE FORMAT INDEPENDENT ACCESS TO  
CLIMATE...OCEAN AND WEATHER MODEL DATA.

NWS RECEIVED FAVORABLE COMMENTS ON THE PROPOSAL TO PROVIDE  
HIGH AVAILABILITY NOMADS APPLICATIONS FOR SERVING MODEL DATA  
ON THE WOC SERVER. NCEP WILL INTRODUCE THE FOLLOWING NOMADS  
WEB BASED ACCESS APPLICATIONS:

1. GRIB\_FILTER: PROVIDES ACCESS TO BINARY GRIB DATA WITH  
SUB-SETTING THROUGH TIME...SPACE AND VARIABLES USING  
TRADITIONAL BUT ENHANCED FTP PROCESSES. DATA ARE PROVIDED IN  
RAW GRIB FORMAT ONLINE AND RESULTS ARE REPACKAGED GRIB FILES  
STREAMED TO THE USERS WORKSTATION. WEB INTERFACES  
COMMUNICATE THE USERS REQUEST AND HTTP PROTOCOL IS USED TO  
DELIVER RESULTS.

2. OPENDAP /GDS/DODS/ SERVER: THE OPEN SOURCE PROJECT FOR A NETWORK DATA ACCESS PROTOCOL /OPENDAP/ IMPLEMENTED UNDER THE GRADS DATA SERVER /GDS/ DISTRIBUTED OCEAN DATA SYSTEM /DODS/ PROVIDES SIMPLE FILE-LEVEL ACCESS/DOWNLOAD VALUES OF ENTIRE FILES OR ONE OR MORE VALUES FROM THE MATRIX OF SERVER GRIB DATA HOLDINGS.

THESE CHANGES ARE MADE TO ADDRESS A GROWING NEED FOR REMOTE ACCESS TO HIGH VOLUME NWP MODEL DATA. A MORE DETAILED DESCRIPTION OF THESE CHANGES IS ONLINE AT /USE LOWERCASE/:

[HTTP://NOMADS.NCEP.NOAA.GOV/](http://NOMADS.NCEP.NOAA.GOV/)

AND VIA SERVICE DESCRIPTION DOCUMENT UNDER THE HEADING SERVICE DOCUMENT AT THE ABOVE WEBSITE

FOR QUESTIONS ON NOMADS...PLEASE CONTACT:

NCEP NOMADS HIGH AVAILABILITY TECHNICAL SUPPORT:  
NCEP NCO PMB HELPDESK  
301-763-8000X7198

SCIENCE/DATA QUESTIONS:  
JORDAN ALPERT  
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NWS TECHNICAL IMPLEMENTATION NOTICES ARE ONLINE AT /USE LOWERCASE/:

[HTTP://WWW.WEATHER.GOV/OS/NOTIF.HTM](http://WWW.WEATHER.GOV/OS/NOTIF.HTM)

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